

Submitted with IDS of February 19, 1999

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Form PTO-1449
(Rev. 8-83)

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 0756-945

Serial No. 08/169,127

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Hisato SHINOHARA et al.

Filing Date: December 20, 1993

Group: 1112/702

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	RE 33,947	06/02/92	Shinohara			
	4,059,461	11/22/77	Fan et al			
	4,233,626	11/11/80	Bell			
	4,270,132	05/26/81	Bell			
	4,309,225	01/05/82	Fan et al			
	4,314,256	02/02/82	Petrov et al			
	4,568,409	02/04/86	Caplan			
	4,861,964	08/29/89	Shinohara			
	5,708,252	01/13/98	Shinohara et al			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
53-122403 * Same	10/25/78	Japan		US PN 4,233,626 above	Abstract
60-052390	03/25/85	Japan			Abstract
60-224282 (Japanese & English)	11/08/85	Japan			X
60-227484 (Japanese & English)	11/12/85	Japan			X
60-260393	12/23/85	Japan			Abstract
61-031288	02/13/86	Japan			Abstract
62-143847	06/27/87	Japan			Abstract
63-084789	04/15/88	Japan		US PN 4,861,964 & 5,708,252 above	Abstract
2-222154	09/04/90	Japan			Abstract
DE 28 12 868 A1	10/12/78	Germany		US PN 4,233,626 above	Abstract

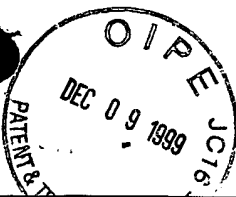
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Gladstone et al., "Liquid Crystal Display Device Configuration", IBM Technical Disclosure Bulletin, Vol. 15, No. 2, July 1972, pp. 437-438
Bahadur, "Molecular Crystals and Liquid Crystals", Vol. 109, No. 1, New York, (1984), pp. 24-26

Examiner

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INFORMATION DISCLOSURE STATEMENT

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Applicant: Hisat SHINOHARA et al.

Filing Date: December 20, 1993

Group: 1762

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)

FOREIGN PATENT DOCUMENTS

all previously cited

Translations of documents only were supplied here

Document Number	Date	Country	Class	Subclass	Translation Yes No
✓ 57-94482 Hongo et al	06/11/82	Japan			Full
✓ 57-193291 Hongo et al	11/27/82	Japan			Full
✓ 60-216549 Soga et al	10/30/85	Japan			Full
✓ 61-216449 Yoko Hirayama	09/26/86	Japan			Full
✓ 61-276233 Kishida	12/06/86	Japan			Full
✓ 1-136973 Okeura del	05/30/89	Japan			Full
✓ 2-50963 Morishige	02/20/90	Japan			Full
✓ 2-67721 Iwano	03/07/90	Japan			Full
✓ 2-174123 Torra	07/05/90	Japan			Full
3-24259 Yanogeta et al	02/01/91	Japan			Full

Toshiba corp.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner <i>A. J. [Signature]</i>	Date Considered <i>6/1/2000</i>
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